

AMENDMENTS TO THE CLAIMS

1. **(CURRENTLY AMENDED)** A stent graft for implantation in a body lumen comprising
a tubular graft having a first stent section comprising reinforcing material formed into
a first pattern and a second stent section comprising reinforcing material formed into a second
pattern, the first pattern being different from the second pattern,
wherein the reinforcing material of the first pattern is disposed on the tubular graft in
a pattern which extends along and oscillates about a line which is parallel to the longitudinal
axis of the tubular graft,
and wherein the reinforcing material of the second pattern includes **separate spaced**
circumferential hoops extending circumferentially around the longitudinal axis of the tubular
graft, each hoop being separate and spaced from each other hoop,
the tubular graft having a first diameter in the region of the first stent section and a
second diameter in the region of the second stent section,
wherein the first diameter is different from the second diameter.
2. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the difference between
the first diameter and the second diameter is up to 5mm.
3. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the difference between
the first diameter and the second diameter is about 2mm.
4. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the first diameter is
larger than the second diameter.
5. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the second diameter
is larger than the first diameter.

6. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the first stent section comprises a plurality of circumferential hoops of reinforcing material disposed around the tubular graft.
7. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein one or more of the circumferential hoops of the second stent section each oscillate about a line running circumferentially around the longitudinal axis of the tubular graft.
8. **(PREVIOUSLY PRESENTED)** The stent graft of claim 7, wherein the ratio of the mean distance from
 - (1) the peak to the trough of the oscillation measured parallel to the longitudinal axis of the graft diameter to
 - (2) the diameter of the graft in the region of the second stent sectionis about 1:2.
9. **(PREVIOUSLY PRESENTED)** The stent graft of claim 7 wherein the second stent section has $2+4n$ peaks wherein n is an integer ranging from 1 to 3.
10. **(PREVIOUSLY PRESENTED)** The stent graft of claim 1 wherein the first and second stent sections are separated by a spacer section lacking reinforcing material, the axial length of which is from a sixth to a third of the diameter of the graft in the region of the first stent section.

11. (CURRENTLY AMENDED) A method comprising:

- a. radially compressing a stent graft having:
 - (1) a first stent section having a first diameter, and including reinforcing material formed into a first pattern, the first pattern including a continuous length of reinforcing material which is disposed around the first stent section in a pattern which **extends along and** oscillates about a line which is parallel to the longitudinal axis of the first stent section, and
 - (2) a second stent section having a second diameter and including reinforcing material formed into a second pattern, the second pattern including at least one circumferential hoop of reinforcing material which oscillates about a line running circumferentially around the longitudinal axis of the second stent section,

and wherein:

- i. the first stent section does not include reinforcing material formed into **~~the second pattern, and a pattern oscillating about a line running circumferentially around the longitudinal axis, and~~**
 - ii. the second stent section does not include reinforcing material formed into **~~the first pattern a pattern oscillating about a line running parallel to the longitudinal axis;~~**
- b. inserting the compressed stent graft into a catheter having an internal diameter which is less than the diameter of the first stent section of the stent graft.

12. (PREVIOUSLY PRESENTED) The method of claim 11 wherein the internal diameter is less than about a quarter of the diameter of the first stent section of the stent graft.

13-20. (CANCELED)

21. **(CURRENTLY AMENDED)** A stent graft for implantation in a body lumen comprising a tubular graft having a first stent section including reinforcing material formed into a first pattern and a second stent section including reinforcing material formed into a second pattern,
- wherein the first pattern includes a continuous length of reinforcing material which is disposed around the tubular graft in a pattern which extends along and oscillates about a line which is parallel to the longitudinal axis of the tubular graft,
- and wherein the second pattern includes at least one circumferential hoop of reinforcing material which extends along and oscillates about a line running circumferentially around the longitudinal axis of the tubular graft,
- and wherein the first stent section does not include reinforcing material formed into the second pattern a pattern oscillating about a line running circumferentially around the longitudinal axis, and the second stent section does not include reinforcing material formed into the first pattern a pattern oscillating about a line running parallel to the longitudinal axis.
22. **(PREVIOUSLY PRESENTED)** The stent graft of claim 21 wherein in the first pattern the ratio of the mean distance from the peak to the trough of said oscillation measured parallel to the longitudinal axis of the graft diameter of the graft to the diameter of the graft in the region of the second stent section is about 1:2.
23. **(PREVIOUSLY PRESENTED)** The stent graft of claim 21 wherein the second pattern has $2 + 4n$ peaks wherein n is an integer ranging from 1 to 3.
24. **(PREVIOUSLY PRESENTED)** The stent graft of claim 21 wherein the tubular graft has a first diameter in the region of the first stent section and a second diameter in the region of the second stent section, and wherein the first diameter is different from the second diameter.
25. **(PREVIOUSLY PRESENTED)** The stent graft of claim 24 wherein the difference between the first diameter and the second diameter is up to 5mm.

26. **(PREVIOUSLY PRESENTED)** The stent graft of claim 24 wherein the difference between the first diameter and the second diameter is about 2mm.
27. **(PREVIOUSLY PRESENTED)** The stent graft of claim 24 wherein the first diameter is larger than the second diameter.
28. **(PREVIOUSLY PRESENTED)** The stent graft of claim 24 wherein the second diameter is larger than the first diameter.
29. **(CANCELED)**
30. **(PREVIOUSLY PRESENTED)** The stent graft of claim 21 wherein the first and second stent sections are separated by a spacer section lacking reinforcing material, the axial length of which is from a sixth to a third of the diameter of the graft in the region of the first stent section.
31. **(NEW)** The stent graft of claim 21 wherein the second stent section includes two or more circumferential hoops of reinforcing material disposed around the tubular graft.
32. **(NEW)** The stent graft of claim 31 wherein each of the circumferential hoops of the second stent section are separate and spaced from each other.
33. **(NEW)** The stent graft of claim 1 wherein the oscillations of the reinforcing material of the first pattern have an amplitude extending across at least a major portion of the circumference of the first section, whereby the reinforcing material extends across at least a major portion of the circumference of the first section and then reverses direction to extend across at least a major portion of the circumference of the first section.

34. (NEW) The stent graft of claim 1 wherein the oscillations of the reinforcing material of the first pattern each include:
- a. a longitudinal portion extending in a direction oriented primarily parallel to the longitudinal axis of the tubular graft, and
 - b. circumferential portions extending from opposing ends of the longitudinal portion, the circumferential portions extending in a direction oriented primarily along the circumference of the tubular graft.
35. (NEW) The stent graft of claim 1 wherein no oscillation of the reinforcing material of the first pattern crosses another oscillation of the reinforcing material of the first pattern to define circumferentially overlapping oscillations.
36. (NEW) The stent graft of claim 1 wherein no portion of the reinforcing material of the first pattern crosses another portion of the reinforcing material of the first pattern, such that the reinforcing material of the first pattern does not overlap about the circumference of the first section.
37. (NEW) The stent graft of claim 21 wherein the oscillations of the reinforcing material of the first pattern have an amplitude extending across at least a major portion of the circumference of the first section, whereby the reinforcing material extends across at least a major portion of the circumference of the first section and then reverses direction to extend across at least a major portion of the circumference of the first section.
38. (NEW) The stent graft of claim 21 wherein no portion of the reinforcing material of the first pattern crosses another portion of the reinforcing material of the first pattern, whereby no portions of the reinforcing material of the first pattern define circumferentially overlapping oscillations.